IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended): A method for generating antialiased lines, comprising the actions of for each respective line, determining which of a plurality of orientation classes that line falls into; and

performing subpixel sampling using one of a plurality of sampling patterns, in dependence on which of said plurality of orientation classes that line falls into;

wherein said determination is made without the use of an error term or per pixel decisions.

- 2. (original): The method of claim 1, wherein said classes consist of x-major and y-major.
- 3. (original): The method of claim 1, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 4. (canceled)

- 5. (currently amended): A method for antialiased rendering, comprising the actions of:
 - (a) identifying, for at least one respective line, which one of a limited number of directions is most nearly parallel to said line; and
 - (b) performing subpixel sampling on said line with a subpixel sampling pattern which has maximal resolution approximately normal to sald one direction;
 - wherein said identification is made without the use of an error term or per pixel decisions.
- 6. (original): The method of claim 5, wherein said number of directions is two.
- 7. (original): A graphics processor which is configured to implement the method of claim 1.
- 8. (original): A graphics processor which is configured to implement the method of claim 5.
- 9. (new): The method of claim 2, wherein aid classification of x-major and y-major depends on whether the x or y extent of the line is larger.
- The method of claim 1, wherein said sampling patterns have the same number of sub-pixel sampling points.
- The method of claim 1, wherein said sampling patterns have four 11. (new): sub-pixel sampling points.

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- 12. (new): The method of claim 5, wherein said sampling pattern has four sub-pixel sampling points.
- 13. (new): A computer graphics system for generating antialiased lines comprising:
 - means for determining which of a plurality of orientation classes that a line falls into; and
 - means for performing subpixel sampling using one of a plurality of sampling patterns, in dependence on which of said plurality of orientation classes that line falls into;
 - wherein said determination is made without the use of an error term or per pixel decisions.
- 14. (new): The system of claim 13, wherein said classes consist of x-major and y-major.
- 15. (new): The system of claim 14, wherein said classification of x-major and y-major depends on whether the x or x extent of the line is larger.
- 16. (new): The system of claim 13, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 17. (new): The system of claim 13, wherein said sampling patterns have the same number of sub-pixel sampling points.
- 18. (new): The system of claim 13, wherein said sampling patterns have four sub-pixel sampling points.

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19. (new): A computer graphics system for generating antialiased lines comprising:

means for identifying, for at least one respective line, which one of a limited number of directions is most nearly parallel to said line; and

means for performing subpixel sampling on said line with a subpixel sampling pattern which has maximal resolution approximately normal to said one direction;

wherein said identification is made without the use of an error term or per pixel decisions.

20. (new): The system of claim 19, wherein said number of directions is two.

21. (new): The system of claim 19, wherein said sampling pattern has four sub-pixel sampling points.

22. (new): A method for generating antialiased lines, comprising the steps of for each respective line:

determining which of a plurality of orientation classes that line falls into; and

performing subpixel sampling using one of a plurality of sampling patterns, in dependence on which of said plurality of orientation classes that line falls into;

wherein said determination is made without the use of an error term or per pixel decisions.

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- 23. (new): The method of claim 22, wherein said classes consist of x-major and y-major.
- 24. (new): The method of claim 23, wherein said classification of x-major and y-major depends on whether the x or y extent of the line is larger.
- 25. (new): The method of claim 22, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 26. (new): The method of claim 22, wherein said sampling patterns have the same number of sub-pixel sampling points.
- 27. (new): The method of claim 22, wherein said sampling patterns have four sub-pixel sampling points
- 28. (new): A method for generating antialiased lines, comprising the steps of:
 - identifying, for at least one respective line, which one of a limited number of directions is most nearly parallel to said line; and
 - performing subpixel sampling on said line with a subpixel sampling pattern which has maximal resolution approximately normal to said one direction;
 - wherein said identification is made without the use of an error term or per pixel decisions.
- 29. (new): The method of claim 28, wherein said number of directions is two.

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30. (new): The method of claim 28, wherein said sampling pattern has four sub-pixel sampling points.